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[Abstract]   [PDF Full-Text (253 KB)]   **IEEE JNL**

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Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on , Volume: 2 , 11-14 Oct. 1998
Pages:2002 - 2007 vol.2

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2 **On parametric t-norm-sum-gravity inference method for fuzzy logic control**
Cheng-Liang Chen; Chung-Tyan Hsieh; Tzxy-Chyi Wang; Shuo-Huan Hsu;
Fuzzy Systems Proceedings, 1998. IEEE World Congress on Computational Intelligence., The 1998 IEEE International Conference on , Volume: 1 , 4-9 Ma 1998
Pages:510 - 515 vol.1

[Abstract]   [PDF Full-Text (424 KB)]   **IEEE CNF**

3 **Optimisation of a fuzzy logic traffic signal controller by a multiobjec genetic algorithm**
Anderson, J.M.; Sayers, T.M.; Bell, M.G.H.;
Road Transport Information and Control, 1998. 9th International Conference (Conf. Publ. No. 454) , 21-23 April 1998
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[Abstract]   [PDF Full-Text (456 KB)]   **IEE CNF**

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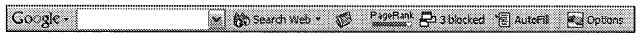   Preferences

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Pages:926 - 936

[Abstract]   [PDF Full-Text (1000 KB)]   **IEEE JNL**

2 **Qualitative reasoning based on fuzzy relative orders of magnitude**
Ali, A.H.; Dubois, D.; Prade, H.;
Fuzzy Systems, IEEE Transactions on , Volume: 11 , Issue: 1 , Feb. 2003
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[Abstract]   [PDF Full-Text (1187 KB)]   **IEEE JNL**

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[Abstract]   [PDF Full-Text (253 KB)]   **IEEE JNL**

4 **Fuzzy set-based methods in instance-based reasoning**
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[Abstract]   [PDF Full-Text (335 KB)]   **IEEE JNL**

5 **Fuzzy logic techniques in multimedia database querying: a prelimini investigation of the potentials**

Dubois, D.; Prade, H.; Sedes, F.;
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[Abstract]   [PDF Full-Text (224 KB)]   **IEEE JNL**

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6 Checking the coherence and redundancy of fuzzy knowledge bases
Dubois, D.; Prade, H.; Ughetto, L.;
Fuzzy Systems, IEEE Transactions on , Volume: 5 , Issue: 3 , Aug. 1997
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[Abstract]   [PDF Full-Text (1168 KB)]   **IEEE JNL**

**7 Handling uncertainty with possibility theory and fuzzy sets in a sate
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Cayrac, D.; Dubois, D.; Prade, H.;
Fuzzy Systems, IEEE Transactions on , Volume: 4 , Issue: 3 , Aug. 1996
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[Abstract]   [PDF Full-Text (1680 KB)]   **IEEE JNL**

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8 Representing partial ignorance
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Systems, Man and Cybernetics, Part A, IEEE Transactions on , Volume: 26 , Is
3 , May 1996
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[Abstract]   [PDF Full-Text (1964 KB)]   **IEEE JNL**

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9 Conditional objects as nonmonotonic consequence relationships
Dubois, D.; Prade, H.;
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10 The paradoxical success of fuzzy logic
*Elkan, C.; Berenji, H.R.; Chandrasekaran, B.; de Silva, C.J.S.; Attikiouzel, Y.;
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Mamdani, E.H.; Pelletier, F.J.; Ruspini, E.H.; Turksen, B.; Vadiee, N.; Jamshia
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Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 4 , Aug
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11 Fuzzy sets-a convenient fiction for modeling vagueness and possibi
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[Abstract]   [PDF Full-Text (700 KB)]   **IEEE JNL**

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13 **Processing fuzzy temporal knowledge**
DuBois, D.; Prade, H.;
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[Abstract]   [PDF Full-Text (1460 KB)]   **IEEE JNL**

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14 **A possibility theory-based approach to the handling of uncertain relations between temporal points**
Hadjali, A.; Dubois, D.; Prade, H.;
Temporal Representation and Reasoning, 2004. TIME 2004. Proceedings. 11th International Symposium on , 1-3 July 2004
Pages:36 - 43

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15 **Possibility theory and its applications: a retrospective and prospect view**
Dubois, D.; Prade, H.;
Fuzzy Systems, 2003. FUZZ '03. The 12th IEEE International Conference on , Volume: 1 , 25-28 May 2003
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Dubois, D.; Prade, H.;

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12 Using consistency and abduction based indices in possibilistic caus: diagnosis

De Mouzon, O.; Dubois, D.; Prade, H.;
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13 Incoherence detection and approximate solving of equations using fuzzy qualitative reasoning

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14 Fuzzy interpolation by convex completion of sparse rule bases

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15 Constraint satisfaction and decision under uncertainty based on qualitative possibility theory

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16 Efficient inference procedures with fuzzy inputs

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17 User-driven summarization of data based on gradual rules

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18 **Coherence of fuzzy knowledge bases**
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19 **Information engineering and fuzzy logic**
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20 **Focusing vs. revision in possibility theory**
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21 **Reasoning in inconsistent stratified knowledge bases**
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22 **An information-based discussion of vagueness**
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24 On fuzzy association rules based on fuzzy cardinalities
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1 Two implementations of the 'FLEX' machine   ▪️
John Kershaw
December 1981 **Proceedings of the 14th annual workshop on Microprogramming**

Full text available: 📄 pdf(1.36 MB)   Additional Information: full citation, abstract, references, index terms

The FLEX high-level language architecture is introduced. Two microprogrammed implementations of FLEX are described, one based on a special purpose, horizontally coded machine and the other on a general purpose emulator called GEMINI. Examples and statistics of both microprograms are given and the two implementations compared.

2 On the use of flexible, rectilinear blocks to obtain minimum-area floorplans in mixed   ▪️
block and cell designs
Dinesh P. Mehta, Naveed Sherwani
January 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 1

Full text available: 📄 pdf(136.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents three minimum-area floorplanning algorithms that use flexible arbitrary rectilinear shapes for the standard cell regions in MBC design. The first algorithm (pure HCST) introduces a grid traversal technique which guarantees a minimum-area floorplan. The second algorithm (Hybrid-BF) uses a combination of HCST and Breadth First (BF) traversals to give a practical solution that approximately places flexible blocks at specified locations called seeds. The thi ...

Keywords: floorplanning, mixed block and cell designs, rectilinear polygons

3 Flexible collaboration transparency: supporting worker independence in replicated   ▪️
application-sharing systems
James Begole, Mary Beth Rosson, Clifford A. Shaffer
June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Full text available: 📄 pdf(312.22 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration transparency systems are

inefficient in their use of network resources and lack support for key groupware principles: concurrent work, relaxed WYSIWIS, and group awareness. Next, we present an alternative approach to implementing collaborat ...

Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

4 Ensuring relaxed atomicity for flexible transactions in multidatabase systems

Aidong Zhang, Marian Nodine, Bharat Bhargava, Omran Bukhres

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(1.30 MB)   Additional Information: full citation, abstract, references, citings, index terms

Global transaction management requires cooperation from local sites to ensure the consistent and reliable execution of global transactions in a distributed database system. In a heterogeneous distributed database (or multidatabase) environment, various local sites make conflicting assertions of autonomy over the execution of global transactions. A flexible transaction model for the specification of global transactions makes it possible to deal robustly with these conflicting requirements. T ...

5 Constraints methods for flexible models

John C. Platt, Alan H. Barr

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques**, Volume 22 Issue 4
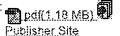
Full text available: pdf(3.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

Simulating flexible models can create aesthetic motion for computer animation. Animators can control these motions through the use of *constraints* on the physical behavior of the models. This paper shows how to use mathematical constraint methods based on physics and on optimization theory to create controlled, realistic animation of physically-based flexible models. Two types of constraints are presented in this *paper: reaction constraints (RCs)* and *augrmented Lagrangian constra ...*

Keywords: *constraints, dynamics, elasticity, modeling, simulation*

6 Flexible parsing

Philip J. Hayes, George V. Mouradian

October 1981 **Computational Linguistics**, Volume 7 Issue 4

Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

When people use natural language in natural settings, they often use it ungrammatically, leaving out or repeating words, breaking off and restarting, speaking in fragments, etc. Their human listeners are usually able to cope with these deviations with little difficulty. If a computer system is to accept natural language input from its users on a routine basis, it should be similarly robust. In this paper, we outline a set of parsing flexibilities that such a system should provide. We go on to de ...

7 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(292.97 KB)   terms

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

8 A high-level and flexible framework for implementing multiuser user interfaces
Prasun Dewan, Rajiv Choudhary
October 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 4

Full text available: pdf(2.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

We have developed a high-level and flexible framework for supporting the construction of multiuser interfaces. The framework is based on a generalized editing interaction model, which allows users to view programs as active data that can be concurrently edited by multiple users. It consists of several novel components including a refinement of both the Seeheim UIMS architecture and the distributed graphics architecture that explicitly addresses multiuser interaction; the abstractions of sha ...

Keywords: computer-supported cooperative work, editing, groupware, user interface management systems

9 Flexible control of downloaded executable content
Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam
May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Full text available: pdf(297.79 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization mechanisms, collaborative systems, role-based access control

10 Avoiding packaging mismatch with flexible packaging
Robert DeLine
May 1999 **Proceedings of the 21st international conference on Software engineering**

Full text available: pdf(1.21 MB)   Additional Information: full citation, references, citings, index terms

11 Flexible support for multiple access control policies
Sushil Jajodia, Pierangela Samarati, Maria Luisa Sapino, V. S. Subrahmanian

June 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 2

Full text available: pdf(460.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

Although several access control policies can be devised for controlling access to information, all existing authorization models, and the corresponding enforcement mechanisms, are based on a specific policy (usually the closed policy). As a consequence, although different policy choices are possible in theory, in practice only a specific policy can actually be applied within a given system. In this paper, we present a unified framework that can enforce multiple access control policies withi ...

Keywords: access control policy, authorization, logic programming

12 Flexible access control policy specification with constraint logic programming

Steve Barker, Peter J. Stuckey
November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4
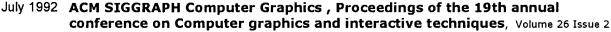
Full text available: pdf(421.65 KB)   Additional Information: full citation, abstract, references, index terms

We show how a range of role-based access control (RBAC) models may be usefully represented as constraint logic programs, executable logical specifications. The RBAC models that we define extend the "standard" RBAC models that are described by Sandhu et al., and enable security administrators to define a range of access policies that may include features, like denials of access and temporal authorizations, that are often useful in practice, but which are not widely supported in existing access co ...

Keywords: Role-based access control, constraint logic programming

13 Dynamic simulation of non-penetrating flexible bodies

David Baraff, Andrew Witkin
July 1992 **ACM SIGGRAPH Computer Graphics , Proceedings of the 19th annual conference on Computer graphics and interactive techniques**, Volume 26 Issue 2

Full text available: pdf(1.59 MB)   Additional Information: full citation, references, citings, index terms

14 Flexible processors: a promising application-specific processor design approach

A. Wolfe, P. Shen
January 1988 **Proceedings of the 21st annual workshop on Microprogramming and microarchitecture**

Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, citings, index terms

A new approach to application specific processor design is presented in this paper. Existing application specific processors are either based on existing general purpose processors or custom designed special purpose processors. The availability of a new technology, the Xilinx Logic Cell Array, presents the opportunity for a new alternative. The Flexible Processor Cell is a prototype of an extremely reconfigurable application specific processor. Flexible processors can potentially pr ...

15 Animated simulation of a flexible manufacturing system

Shay-Ping T. Wang
December 1986 **Proceedings of the 18th conference on Winter simulation**

Full text available: pdf(559.41 KB)   Additional Information: full citation, abstract, references, index terms

A flexible manufacturing system requires computer control of a variety of machines, complicated product routings and mixing, and costly installation. To reduce potential design errors and associated financial risk, simulation techniques must be employed. This paper applies animated simulation to a flexible robotic inspection cell, a flexible wave soldering cell, and an automated guided vehicle system (AGVS) in one of Intel's integrated circuit assembly plants in Arizona. The flexible roboti ...

16 A flexible authorization mechanism for relational data management systems

Elisa Bertino, Sushil Jajodia, Pierangela Samarati
April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

Full text available: pdf(257.56 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this article, we present an authorization model that can be used to express a number of discretionary access control policies for relational data management systems. The model permits both positive and negative authorizations and supports exceptions at the same time. The model is flexible in that the users can specify, for each authorization they grant, whether the authorization can allow for exceptions or whether it must be strongly obeyed. It provides authorization management for group ...

Keywords: access control mechanism, access control policy, authorization, data management system, group management support, relational database

17 A knowledge-based decision support system for flexible manufacturing

D. H. Norrie, R. Fauvel, B. R. Gaines, M. Mowchenko
June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(635.29 KB)   Additional Information: full citation, abstract, references, index terms

A decision support system is under development for planning in flexible manufacturing, using a consortium of knowledge-based systems utilizing expert system, database, and simulation techniques. An object-oriented approach is incorporated. There are six basic modules: machine selection optimizer; database; production flow analyzer; rapid modelling techniques system; FMS simulator; supervisor.The prototype of the machine selection optimizer has been developed, tested, and is under ...

18 HFS: a performance-oriented flexible file system based on building-block compositions

Orran Krieger, Michael Stumm
August 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 3

Full text available: pdf(383.87 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Hurricane File System (HFS) is designed for (potentially large-scale) shared-memory multiprocessors. Its architecture is based on the principle that, in order to maximize performance for applications with diverse requirements, a file system must support a wide variety of file structures, file system policies, and I/O interfaces. Files in HFS are implemented using simple building blocks composed in potentially complex ways. This approach yields great flexibility, allowing an application ...

Keywords: customization, data partitioning, data replication, flexibility, parallel computing, parallel file system

19

The FLEX/32 multicomputer

Nicholas Matelan
June 1985 **ACM SIGARCH Computer Architecture News , Proceedings of the 12th
annual international symposium on Computer architecture**, Volume 13 Issue 3
Full text available: pdf(500.29 KB)   Additional Information: full citation, citings, index terms

20 Flexible support for business processes: extending cooperative hypermedia with
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Jörg M. Haake, Weigang Wang
November 1997 **Proceedings of the international ACM SIGGROUP conference on
Supporting group work : the integration challenge: the integration
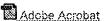challenge**
Full text available: pdf(1.62 MB)·   Additional Information: full citation, references, citings, index terms

Keywords: activity space, cooperative work, flexible workflow, hypermedia
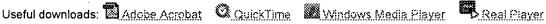

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A. Cucuccio, B. Giacalone, G. Sicurella
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**
Full text available: 📄 pdf(590.65 KB)   Additional Information: full citation, index terms

2 Fuzzy logic based non-parametric color image segmentation with optional block processing
Naoko Ito, Yoshihisa Shimazu, Teruo Yokoyama, Yutaka Matushita
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**
Full text available: 📄 pdf(920.20 KB)   Additional Information: full citation, references, citings, index terms

3 A JPEG codec adaptive to region importance
Jiying Zhao, Yoshihisa Shimazu, Koji Ohta, Rina Hayasaka, Yutaka Matsushita
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation, references, index terms

Keywords: JPEG, adaptive codec, fuzzy reasoning, human visual system, region importance

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1 Posters: Addressing the complexity of patient monitoring with multiagents and modular logic
Susan L. Mabry, Timothy Etters, Troy Schneringer, Naomi Edwards, Caleb Hug
July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: 📄 pdf(154.93 KB)   Additional Information: full citation, abstract, references, index terms

While there is a recognized need among medical clinicians for assistance in monitoring and diagnostic tasks, the domain is extremely complex. Teams of distributed agents and interchangeable logic modules can address practical issues in a fielding of MAS technology. IM-Agents employ dynamic inference through a hybrid approach of fuzzy logic, connection networks, trend analysis and qualitative logic. Decision functionality in test cases involves emergency trauma scenarios, with particular focus on ...

Keywords: diagnostics, fuzzy logic, monitoring, multiagents

2 Genetic algorithm for fuzzy modeling of robotic manipulators
Trung T. Pham
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

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3 Modeling methodology: Techniques for optimizing model execution II: a systematic approach to linguistic fuzzy modeling based on input-output data
Hossein Salehfar, Nagy Bengiamin, Jun Huang
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: 📄 pdf(253.98 KB)   Additional Information: full citation, abstract, references

A new systematic algorithm to build adaptive linguistic fuzzy models directly from input-output data is presented in this paper. Based on clustering and projection in the input and output spaces, significant inputs are selected, the number of clusters is determined, rules are generated automatically, and a linguistic fuzzy model is constructed. Then, using a simplified fuzzy reasoning mechanism, the Back-Propagation (BP) and Least Mean Squared (LMS) algorithms are implemented to tune the paramet ...

4

W.A.R.P and FUZZYSTUDIO: an easy and fast way to implement. With low cost, fuzzy logic control systems
A. Cucuccio, B. Giacalone, G. Sicurella
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(590.65 KB)   Additional Information: full citation, index terms

5 Fuzzy genetic controllers for the autonomous rendezvous and docking problem
Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(582.45 KB)   Additional Information: full citation, references, index terms

Keywords: docking, fuzzy, genetic algorithm, transportation

6 Agents, interactions, mobility, and systems (AIMS): Information agents cooperating with heterogenous data sources for customer-order management
Dionisis Kehagias, Andreas L. Symeonidis, Kyriakos C. Chatzidimitriou, Pericles A. Mitkas
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(251.73 KB)   Additional Information: full citation, abstract, references

As multi-agent systems and information agents obtain an increasing acceptance by application developers, existing legacy Enterprise Resource Planning (ERP) systems still provide the main source of data used in customer, supplier and inventory resource management. In this paper we present a multi-agent system, comprised of information agents, which cooperates with a legacy ERP in order to carry out orders posted by customers in an enterprise environment. Our system is enriched by the capability o ...

Keywords: customer-order management, enterprise resource planning, information agents

7 Fuzzy logic based non-parametric color image segmentation with optional block processing
Naoko Ito, Yoshihisa Shimazu, Teruo Yokoyama, Yutaka Matushita
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**

Full text available: pdf(920.20 KB)   Additional Information: full citation, references, citings, index terms

8 Approximate spatial reasoning
Soumitra Dutta
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(807.35 KB)   Additional Information: full citation, abstract, references, index terms

It is a truism that much of human reasoning is approximate in nature. Spatial reasoning is an area where humans consistently reason approximately with demonstrably good results. The unique mental processes behind these actions are not well understood. However, it is important that we try to incorporate such approximate reasoning techniques in our computer systems. Approximate spatial reasoning is very important for intelligent mobil ...

9 Fuzzy neural network models for clustering

A. D. Kulkarni, V. K. Muniganti

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(850.43 KB)   Additional Information: full citation, references, index terms

10 Information granulation for concept formation

W. Pedrycz, A. V. Vasilakos, A. Gacek

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(463.28 KB)   Additional Information: full citation, references, index terms

Keywords: fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator

11 Fuzzy control for the pursuing problem of an adaptive planar structure

Poyu Tsou, M.-H. Herman Shen

April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: pdf(399.06 KB)   Additional Information: full citation, references, index terms

Keywords: adaptive structure, fuzzy controller, pursuing problem

12 DECADE — fast centroid approximation defuzzification for real time fuzzy control applications

T. A. Runkler, M. Glesner

April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: pdf(468.49 KB)   Additional Information: full citation, references, citings, index terms

Keywords: defuzzification, fuzzy control, hardware, operators, software

13 A JPEG codec adaptive to region importance

Jiying Zhao, Yoshihisa Shimazu, Koji Ohta, Rina Hayasaka, Yutaka Matsushita

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available: pdf(1.47 MB)   Additional Information: full citation, references, index terms

Keywords: JPEG, adaptive codec, fuzzy reasoning, human visual system, region importance

14 A fuzzy rule-based interactive methodology for training multimedia actors

Savant Karunaratne, Hong Yan

December 2000 **Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2**

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, index terms

Computer animation has come a long way during the last decade and is now capable of producing near-realistic rendered 3D computer graphics models of expressive, talking, acting humanoids and other characters inhabiting virtual worlds. However, the component of work that needs to be done by animators and artists in producing these synthetic character performances is quite significant. In this paper, we present an expert system based on fuzzy knowledge bases that helps in moving towards automating ...

15 Controlling asymmetric errors in neuro-fuzzy classification
Aljoscha Klose, Rudolf Kruse, Karsten Schulz, Ulrich Thönnessen
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**
Full text available: pdf(550.50 KB)   Additional Information: full citation, references, index terms

Keywords: aerial images, asymmetric errors, neuro-fuzzy classifiers, unbalanced data

16 NEFCLASSmdash:a neuro-fuzzy approach for the classification of data
Detlauf Nauck, Rudolf Kruse
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(511.25 KB)   Additional Information: full citation, references, citings, index terms

Keywords: data analysis, fuzzy ssytem, learning, neuro-fuzzy system, pattern recognition

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R.-B. Lin, E. Shragowitz
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2 W.A.R.P and FUZZYSTUDIO: an easy and fast way to implement. With low cost, fuzzy logic control systems

A. Cucuccio, B. Giacalone, G. Sicurella
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

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February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

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Keywords: digital signal processor, fuzzy logic, inverse kinematics, neural networks, self-organizing controller

5 Adaptive cooperative fuzzy logic controller

Justin Ammerlaan, David Wright
January 2004 **Proceedings of the 27th conference on Australasian computer science -
Volume 26**
Full text available: pdf(324.34 KB)   Additional Information: full citation, abstract, references

> Fuzzy logic is a natural basis for modelling and solving problems involving imprecise
> knowledge and continuous systems. Unfortunately, fuzzy logic systems are invariably static
> (once created they do not change) and subjective (the creator imparts their beliefs on the
> system). In this paper we address the question of whether systems based on fuzzy logic
> can effectively adapt themselves to dynamic situations.To answer this question, we firstly
> design and implement an adaptive fuzzy logic agent for ...

6 Fuzzy genetic controllers for the autonomous rendezvous and docking problem
Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(582.45 KB)   Additional Information: full citation, references, index terms

> **Keywords**: docking, fuzzy, genetic algorithm, transportation

7 A reusable software adaptative fuzzy controller architecture
David Rine, Moataz Ahmed, Junda Chen
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(483.65 KB)   Additional Information: full citation, references, index terms

> **Keywords**: abstract data type, adaptive algorithms, adaptive controller, fuzzy logic,
> software reuse

8 Improving object-oriented methods by using fuzzy logic
Francesco Marcelloni, Mehmet Aksit
December 2000 **ACM SIGAPP Applied Computing Review**, Volume 8 Issue 2

Full text available: pdf(904.41 KB)   Additional Information: full citation, abstract, index terms

> Object-oriented methods create software artifacts through the application of a large number
> or rules. Rules are typically formulated in two-valued logic. There are a number of problems
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> capture completely neither method developers' intuition nor software engineers' perception
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> reasoning, object-oriented methods, quantization error

9 GA design of crisp-fuzzy logic controllers
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February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(549.31 KB)   Additional Information: full citation, references, index terms

Keywords: fuzzy logic control, genetic algorithms, real-time control

10 Object oriented process modeling with fuzzy logic
Luigi Benedicenti, Giancarlo Succi, Tulio Vernazza, Andrea Valerio
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(1.51 MB)   Additional Information: full citation, references, index terms

11 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-
speed networks
Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Full text available: pdf(342.90 KB)   Additional Information: full citation, references, citings, index terms

12 Fuzzy functional dependencies and lossless join decomposition of fuzzy relational
database systems
K. V. S. V. N. Raju, Arun K. Majumdar
June 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 2

Full text available: pdf(3.05 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

This paper deals with the application of fuzzy logic in a relational database environment
with the objective of capturing more meaning of the data. It is shown that with suitable
interpretations for the fuzzy membership functions, a fuzzy relational data model can be
used to represent ambiguities in data values as well as impreciseness in the association
among them. Relational operators for fuzzy relations have been studied, and applicability of
fuzzy logic in capturing integrity constraint ...

13 Tutorial on fuzzy logic in simulation
M. Luisa McAllister, Sergei A. Ovchinnikov, John T. Dockery, Klaus-Peter Adlassnig
December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available: pdf(521.16 KB)   Additional Information: full citation, abstract, references

The objective of this tutorial is to introduce to the simulation community another tool that is
now available. This tool is best known under the name of Fuzzy Set Theory. This tutorial
contains a brief discussion of the current trends in simulation which we believe justify the
need of this new tool. Kept to a minimum, the Introduction to fuzzy sets will be strictly
limited to the case of a finite number of elements. Most attention will be devoted to fuzzy
logic. It is precisely fuzzy logic ...

14 Modeling II: Fuzzy blending of materials
Ahmet Çinar
June 2004 **Proceedings of the 2nd international conference on Computer graphics and
interactive techniques in Australasia and Southe East Asia**

Full text available: pdf(367.57 KB)   Additional Information: full citation, abstract, references

In this paper, we propose a novel method for free form surface modeling based on fuzzy
logic technique. The presented method is dependent on finding control points of surface.
The main objective of method is that; in case of knowing start and final points, a surface is
to construct by modeling curves. Firstly, each curve is modeled and then a surface is
generated by joining the created curves. As an application, the method is applied to 3D
blending and some blended objects are given. Application ...

Keywords: blending, fuzzy logic technique, surface modeling

15 Information granulation for concept formation
W. Pedrycz, A. V. Vasilakos, A. Gacek
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(463.28 KB)   Additional Information: full citation, references, index terms

Keywords: fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator

16 A collaborative fuzzy expert system for the Web
Tod A. Sedbrook
June 1998 **ACM SIGMIS Database**, Volume 29 Issue 3

Full text available: pdf(1.54 MB)   Additional Information: full citation, abstract, index terms

A convergence of Internet and fuzzy logic technologies provides an opportunity for experts and end users to collaborate in developing, refining, and testing knowledge-based systems. Internet technology removes geographical and time-based restraints, and fuzzy rule bases are easier to understand and maintain. This paper describes an architecture and a prototype for developing, delivering, and maintaining expert systems on the World Wide Web.The system's collaboration components allowed experts to ...

Keywords: Internet, collaboration, design, expert system, fuzzy logic

17 Web-based and Java-based simulation: Java applications: issues in Java-based continuous time step physical modelling
Lisa A. Schaefer, Philip M. Wolfe
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(183.10 KB)   Additional Information: full citation, abstract, references

This paper discusses the problems involved in developing a Java based simulation model of autonomous entities that can navigate themselves in 2-dimensional space. We develop some ideas for solving those problems. The ideas mentioned in this paper can be applied to simulations that have fuzzy logic for navigation, encapsulation for object-oriented simulation, many instances of objects, or statistically complex results. We cite reasons for distributing a simulation among several computers and prop ...

18 Fuzzy RuleNet: an artificial neural network model for fuzzy classification
Nadine Tschichold-Gürman
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: pdf(571.46 KB)   Additional Information: full citation, references, index terms

19 Knowledge assessment using fuzzy conceptual representation
Perry C. Cheng, Danny Kilis, Graeme Knight
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(603.43 KB)   Additional Information: full citation, references, index terms

20 Cough detection using fuzzy classification
Peter A. Stegmaier-Stracca, Nadine N. Tschichold-Gürman
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(541.11 KB)   Additional Information: full citation, references, index terms

Keywords: Fuzzy Rule Net, cough detection, fuzzy classification, fuzzy rulebase learning, fuzzy signal interpretation, fuzzy-neuro systems

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Richard C. T. Lee
January 1972 **Journal of the ACM (JACM)**, Volume 19 Issue 1

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Justin Ammerlaan, David Wright
January 2004 **Proceedings of the 27th conference on Australasian computer science – Volume 26**

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Keywords: adaptable design models, development environments, fuzzy logic-based reasoning, object-oriented methods, quantization error

4 Security is fuzzy!: applying the fuzzy logic paradigm to the multipolicy paradigm
Hilary H. Hosmer

August 1993 **Proceedings on the 1992-1993 workshop on New security paradigms**

Full text available: pdf(1.02 MB)   Additional Information: full citation, references, citings

5 Fuzzy-logic digital-analogue interfaces for accurate mixed-signal simulation
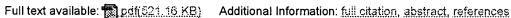
T. J. Kazmierski
February 1998 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(48.45 KB)   Additional Information: full citation, abstract, references, index terms
Publisher Site

A new approach to mixed-signal circuit interfacing based on fuzzy logic models is presented. Due to their continuous rather than discrete character, fuzzy logic models offer a significant improvement compared with the classical D-A interface models. Fuzzy logic D-A interfaces can represent the boundary between the digital and analogue worlds accurately without a significant loss of computational efficiency. The potential of mixed-signal interfacing based on fuzzy logic is demonstrated by an exam ...

6 Tutorial on fuzzy logic in simulation

M. Luisa McAllister, Sergei A. Ovchinnikov, John T. Dockery, Klaus-Peter Adlassnig
December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available: pdf(521.16 KB)   Additional Information: full citation, abstract, references

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7 Just decisions using multiple criteria or: who gets the Porsche? An application of Ronald R. Yager's Fuzzy Logic method

Lothar Philipps
May 1995 **Proceedings of the fifth international conference on Artificial intelligence and law**

Full text available: pdf(606.65 KB)   Additional Information: full citation, references, index terms

8 Application of fuzzy logic to approximate reasoning using linguistic synthesis

E. H. Mamdani
May 1976 **Proceedings of the sixth international symposium on Multiple-valued logic**

Full text available: pdf(433.69 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an application of fuzzy logic in designing controllers for industrial plants. A Fuzzy Logic is used to synthesise linguistic control protocol of a skilled operator. The method has been applied to pilot scale plants as well as in a practical industrial situation. The merits of this method in its usefulness to control engineering are discussed. This work also illustrates the potential for using fuzzy logic in modelling and decision making. An avenue for further work in th ...

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Kuan-Shiu Chiu, Andrew Hunter
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

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12 Design of an adaptive motors controller based on fuzzy logic using behavioral synthesis
A. Changuel, A. Jerraya, R. Rolland
September 1996 **Proceedings of the conference on European design automation**

Full text available: pdf(85.05 KB)   Additional Information: full citation, references, citings, index terms

13 VHDL and fuzzy logic if-then rules
Alex Zamfirescu, Cary Ussery
November 1992 **Proceedings of the conference on European design automation**

Full text available: pdf(499.34 KB)   Additional Information: full citation, references, citings, index terms

14 Teaching principles of fuzzy logic analysis using the BK-products model
Bobby C. Granville
April 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 4

Full text available: pdf(44.13 KB)   Additional Information: full citation, abstract, references, index terms

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words," a natural language protocol that provides users the freedom to permit their
common use of vague measurement terms in analyzing vague and partial relational
knowledge structures. This course applies fuzzy logic to filter, organize, and compare verbal
relational requests (queries) that relate patient symptoms with d ...

15 Implementation of fuzzy logic and neural networks control algorithm using a digital signal processing chip
Kishan Kumar Kumbla, Mohammad Jamshidi, Jorge Benitez-Read
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(453.67 KB)   Additional Information: full citation, references, index terms

Keywords: digital signal processor, fuzzy logic, inverse kinematics, neural networks, self-organizing controller

16 Manufacturing applications: Simulation optimization in manufacturing analysis: incorporating fuzzy logic admission control in simulation models
Qisheng Le, Gerald M. Knapp
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(305.89 KB)   Additional Information: full citation, abstract, references

Admission Control is of great interest in computer, communication and production network applications. As systems become more complex or need to make decision based on multiple objectives or require to satisfy several constraints, Fuzzy Logic Control (FLC) is a natural tool to handle admission problems. This paper discusses the framework of a tool developed for easily integrating fuzzy logic admission control into Arena simulation models. The tool is implemented as a "drop-in" model block tha ...

17 Fuzzy logic, neural networks, and soft computing
Lotfi A. Zadeh
March 1994 **Communications of the ACM**, Volume 37 Issue 3
Full text available: pdf(2.17 MB)   Additional Information: full citation, references, citings, index terms, review

18 What does fuzzy logic bring to AI?
Didier Dubois, Henri Prade
September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3
Full text available: pdf(278.66 KB)   Additional Information: full citation, references, index terms, review

19 FLAMES: A Fuzzy Logic ATMS and Model-based Expert System for Analog Diagnosis
F. Mohamed, M. Marzouki, M. H. Touati
March 1996 **Proceedings of the 1996 European conference on Design and Test**
Full text available: pdf(609.47 KB)
Publisher Site   Additional Information: full citation, abstract

Diagnosing analog circuits with their numerous known difficulties is a very hard problem. Digital approaches have proven to be inappropriate, and AI-based ones suffer from many problems. In this paper we present a new system, FLAMES, which uses fuzzy logic, model-based reasoning, ATMS extension, and the human expertise in an appropriate combination to go far in the treatment of this problem.

20 A predictive self-tuning fuzzy-logic feedback rate controller
Rose Qingyang Hu, David W. Petr
December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6
Full text available: pdf(281.19 KB)   Additional Information: full citation, references

Keywords: adaptive control, asynchronous transfer mode, computer network performance, feedback systems, fuzzy control, predictive control, traffic control

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1 **Fuzzy logic control of a moving flexible manipulator**
Chong Chen; Yican Yin;
Control Applications, 1999. Proceedings of the 1999 IEEE International Confer
on , Volume: 1 , 22-27 Aug. 1999
Pages:315 - 320 vol. 1

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1 **Fuzzy logic based SVC for power system transient stability enhancei**
Lo, K.L.; Laiq Khan;
Electric Utility Deregulation and Restructuring and Power Technologies, 2000.
Proceedings. DRPT 2000. International Conference on , 4-7 April 2000
Pages:453 - 458

[Abstract]   [PDF Full-Text (356 KB)]   **IEEE CNF**

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2 **Traffic signal control using fuzzy logic and MOGA**
Wu Wei; Yi Zhang; Mbede, J.B.; Zuo Zhang; Jingyan Song;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volu
2 , 7-10 Oct. 2001
Pages:1335 - 1340 vol.2

[Abstract]   [PDF Full-Text (473 KB)]   **IEEE CNF**

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3 **Fuzzy logic control of a moving flexible manipulator**
Chong Chen; Yican Yin;
Control Applications, 1999. Proceedings of the 1999 IEEE International Confer
on , Volume: 1 , 22-27 Aug. 1999
Pages:315 - 320 vol. 1

[Abstract]   [PDF Full-Text (568 KB)]   **IEEE CNF**

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4 **On parametric t-norm-sum-gravity inference method for fuzzy logic control**
Cheng-Liang Chen; Chung-Tyan Hsieh; Tzxy-Chyi Wang; Shuo-Huan Hsu;
Fuzzy Systems Proceedings, 1998. IEEE World Congress on Computational
Intelligence., The 1998 IEEE International Conference on , Volume: 1 , 4-9 Mc
1998

Pages:510 - 515 vol.1

[Abstract]   [PDF Full-Text (424 KB)]   **IEEE CNF**

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5 **Tamper detection using neuro-fuzzy logic [static energy meters]**
Misra, R.B.; Patra, S.;
Metering and Tariffs for Energy Supply, 1999. Ninth International Conference
(Conf. Publ. No. 462) , 25-28 May 1999
Pages:101 - 108

[Abstract]   [PDF Full-Text (396 KB)]   **IEE CNF**

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6 **Optimisation of a fuzzy logic traffic signal controller by a multiobjec
genetic algorithm**
Anderson, J.M.; Sayers, T.M.; Bell, M.G.H.;
Road Transport Information and Control, 1998. 9th International Conference (
(Conf. Publ. No. 454) , 21-23 April 1998
Pages:186 - 190

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